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ABSTRACT

This normative study of the American Association on Mental Deficiency (AAMD) Adaptive Behavior Scale--Public School Version was based on 291 Texas public school children divided into 12 categories. The categories were: age, ethnic, or racial group (white or non-white), and assignment to regular classes or special education classes for the educable mentally retarded, trainable mentally retarded, or learning disabled. Part I of the scale was emphasized in this report; it provides measures of independent functioning, physical development, economic activity, language development, number and time concepts, vocational activity, self-direction, responsibility, and socialization. Reliability estimates were based on the total group including eight, ten, and twelve-year old children. Item validity analysis was based on the discrimination between regular and special education groups, although it appears that the raters knew the group membership of the children at the time they made the ratings. The norms from this study were found to be similar to the original AAMD norms for this scale. The authors suggest that the construction and validation of a shortened version of the scale would be useful; and that it has potential for screening children for placement in special education classes. (CTM)

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The AAMD Adaptive Behavior Scale--Public
School Version: A Normative Study

by

Lenore A. Boyd and Brad Chissom

Final Report of a Research Project Funded by
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Lenore Boyd
Brad Chissom

THE AAMD ADAPTIVE BEHAVIOR SCALE--PUBLIC SCHOOL VERSION:

A NORMATIVE STUDY

ABSTRACT

Many state agencies have ruled that assignment of students to special education classes for the mentally retarded must be determined by assessment of verbal, performance, and adaptive behaviors. The AAMD Adaptive Behavior Scale -- Public School Version was subjected to a normative and validation study using 291 subjects from the southcentral area of Texas. Normative and validity data were collected and analyzed from groups of regular and special education students, both white and non-white, at 8, 10, and 12 years of age. Results were compared to the original normative data provided in the AAMD Manual and indicated that (1) the instrument is effective in discriminating between regular and special education groups; (2) a shortened version may be feasible and more practical; and (3) the derived total score may be useful and effective when used as a cut-off score for placement in special education for the mentally retarded.

The Adaptive Behavior Scale--Public School Version:

A Normative Study

The concept of adaptive behavior as a criterion for judging degree or extent of mental retardation is not new. The requirement for its formal assessment, however, is a current issue of much interest. Since the publication of the Stanford-Binet increasing emphasis has been placed on standardized intelligence test scores to define mental retardation. Such scores, namely IQ's, have often been the major criterion for determining mental deficiencies in school-aged children with subsequent classification, labeling, and placement in special education programs for the retarded.

Use of the IQ as the primary or sole criterion for defining retardation has proved to be less than satisfactory. Most of the tests available were standardized on white, middle-class populations and are increasingly viewed as biased and discriminatory when used with minority groups who are culturally or economically different. Emphasis on IQ's has resulted in the inappropriate classification and placement of many children whose learning difficulties were in fact due to differences in language, cultural, or economic background (Mercer, 1973); Because of the disproportionate number of children from minority groups in classrooms for the mentally retarded, the use of a measure of adaptive behavior has been added to the requirements for assessment of mental retardation.

Texas Education Agency Guidelines (TEA, 1976) state specific regulations for determination of pupil eligibility for placement in a special education program for the mentally retarded. A comprehensive appraisal must now include the assessment of verbal abilities,

performance abilities, and adaptive behaviors. Classification and placement in an educational program for the mentally retarded is merited only when scores on all three scales are two or more standard deviations below the mean for the general population. As is true in many other states, these Guidelines also provide lists of approved tests to be used in the evaluation of verbal, performance, and adaptive behaviors.

A recent survey by Morrow and Coulter (1977) identified a number of measures of adaptive behaviors available to the practitioner. Only two, however, were placed on the approved Texas list: Mercer's Adaptive Behavior Inventory for Children (ABIC) and the AAMD Adaptive Behavior Scale -- Public School Version (ABS-PSV). Since Mercer's scale will not be available to the general public until its release by the Psychological Corporation, the ABS-PSV is being widely used in Texas.

The ABS-PSV consists of two parts. Part One, organized along developmental lines, is made up of 56 items. It is designed to evaluate an individual's competencies in nine domains: Independent Functioning, Physical Development, Economic Activity, Language Development, Number and Time, Vocational Activity, Self-direction, Responsibility, and Socialization. Part Two is designed to measure or evaluate maladaptive behaviors closely related to personality and emotional disorders. Part II is viewed as less important in the assessment of mental retardation and of limited usefulness. The present study, therefore, is concerned with data collected by use of Part One of the ABS-PSV.

The ABS-PSV is primarily a restandardized version of an instrument

widely used with severely handicapped, institutionalized retardates. Normative data available in the Manual (Lambert, Windmiller, Cole & Figueroa, 1974) were obtained from teacher ratings of approximately 2600 children from 14 California school districts. The standardization sample included an equal number of boys and girls ages 7 to 13 from three ethnic groups in regular and special education programs.

The purposes of this study were to collect normative data for the ABS-PSV for children in Texas schools and to determine the validity of the instrument in discriminating between children in special education and those in regular education programs. Data collected in this study may then be compared to the California data provided in the AAMD Manual.

Specific objectives for this study were:

- 1) To establish normative data for the AAMD Adaptive Behavior Scale--Public School Version for Texas children in three age groups, 8, 10, and 12, from three ethnic groups in regular and special education programs.
- 2) To determine the validity of the instrument in discriminating between children identified as special education and those in the regular curriculum. An item analysis will be conducted to assess the discrimination ability of each item.
- 3) To compare normative data obtained from this study of Texas children with norms provided by the AAMD.
- 4) To determine the feasibility of establishing a shortened version of the scale based on normative and validity data obtained from

4
the investigation.

PROCEDURES

Subjects

The Region VI Educational Service Center area served as the focal point for the data collection procedures, and subjects were selected from an area within a sixty mile radius of Texas A&M University. A total of 291 subjects were included in the sample. The ABS-PSV forms were completed for each subject by classroom teachers. This represents an important aspect of the data collection process. If adaptive behavior can be adequately assessed by a classroom teacher, then it may not be necessary to collect data from parent interviews and other sources that are not as readily available.

A workshop was held at Texas A&M University to assist teachers in data collection techniques and procedures for the Adaptive Behavior Scale. In addition to the workshop, consultants were available to assist teachers with problems encountered in the data collection process.

The subjects for the study were divided into three age groups, 8, 10, and 12-year olds. For comparison purposes, age ranges for each group were calculated in months as follows: Age 8: 84-108 months; Age 10: 109-132 months; and Age 12: 133-157 months.

The stratified sampling procedure of the original proposal called for subdivision by ethnicity into groups of white, black, and Mexican-American subjects. Due to the difficulty in obtaining subjects in the

Mexican-American category, the sample was classified only as white and non-white groups. In addition, subjects were selected from the categories of regular and special education. Any subject classified by the school as Educable or Trainable Mentally Retarded (EMR or TMR) or Learning Disabled (LD) was assigned to the Special Education category.

Table 1 indicates the number of subjects for each of the categories described. Of the total sample of 291 subjects 41% (119) were

TABLE 1

Table of Subject Groups by
Age, Ethnic Group, and School Classification

<u>Age</u>	<u>Regular</u>			<u>Special</u>		
	<u>White</u>	<u>Non-white</u>	<u>Total</u>	<u>White</u>	<u>Non-white</u>	<u>Total</u>
8	11	51	62	18	47	65
10	14	23	37	20	49	69
12	2	10	12	9	37	46
Total	27	84	111	47	133	180

female and 59% (172) were male. These percentages were approximately the same for most of the categories previously described.

Data Collection

The ABS-PSV forms were completed for each subject by classroom teachers. Demographic data was used to calculate a measure of socioeconomic status (SES) and IQ's were obtained when available. SES

information was collected for 162 subjects and IQ scores were available for 170. The data were collected from public schools who volunteered to participate in the Spring of 1977 following the workshop previously described.

Results

Data were analyzed first to determine the reliability of each of the nine subscales. These reliabilities were internal consistency estimates calculated through the average correlation among scale items. As shown in Table 2, these reliability estimates were satisfactory for most of the subscales with the lowest reliability coefficient of .68 in the Physical Development domain.

TABLE 2
INTRASCALE RELIABILITIES

Scale		Reliability	
I.	Independent Functioning	.916	.92
II.	Physical Development	.681	.68
III.	Economic Activity	.810	.81
IV.	Language Development	.872	.87
V.	Number and Time Concepts	.786	.79
VI.	Vocational Activity	.859	.86
VII.	Self Direction	.779	.78
VIII.	Responsibility	.796	.80
IX.	Socialization	.779	.78

Objective One as modified was to establish normative data for the

ABS-PSV for white and non-white groups and for regular and special education classifications. Norm tables (Appendix) are presented with percentile equivalents for the raw scores for each subscale and for a derived total score. The norm tables were constructed to resemble the format used in the AAMD Manual for ease of comparability with the original data. The major deviation from the previous norm tables is the inclusion of the derived total score.

Objective Two of this project was to determine the ability of each of the 56 items and the total scores from the nine domains to discriminate between groups of subjects identified as regular or special education students. In addition to the item validity information and domain score validity data, it was important to determine whether or not items in the scale were related to the subject characteristics of ethnicity, sex, or SES. The results of the correlational analyses between items and ethnic group, sex, and SES are shown in Tables 3, 4, and 5 respectively. (See pages 8 thru 10).

An inspection of the tables shows little indication of discrimination on the part of scale items for any of the three variables of concern. No pattern is apparent in the data, and items were seldom repeated as discriminating among the 18 categories of analysis. Thus only a few specific, unrelated items in the total scale appear to discriminate on the basis of ethnic group, sex or SES.

Results of the final analysis, the correlations between items and classification (regular vs special education) and correlations between domain total scores and classification are contained in Table 6. (See

TABLE 3

SUMMARY OF CORRELATIONS BETWEEN ITEMS
AND ETHNIC GROUP (WHITE VS. NON-WHITE)
BY AGE AND CLASSIFICATION

Domains	Number of Items	Items which were significantly correlated with ethnic group Age Group and Classification					
		8		10		12	
		Reg.	Spec.	Reg.	Spec.	Reg.	Spec.
I. Independent Functioning	17	NS*	17	NS	14	NS	NS
II. Physical Development	6	NS	23	NS	24	NS	NS
III. Economic Activity	4	NS	NS	NS	31	NS	NS
IV. Language Development	9	NS	NS	32	NS	NS	NS
V. Number and Time Concepts	3	NS	NS	NS	NS	NS	NS
VI. Vocational Activ.	3	NS	NS	NS	50	NS	NS
VII. Self Direction	5	NS	56	NS	55, 57	NS	NS
VIII. Responsibility	2	NS	NS	NS	NS	58	NS
IX. Socialization	7	62**	NS	NS	NS	NS	NS
Total Number of Significant Items	56	1	3	1	6	1	0

*NS= None Significant

**Actual Item Number from Scale

TABLE 4

SUMMARY OF CORRELATIONS OF ITEMS WITH
SIGNIFICANCE OF SEX BY AGE AND CLASSIFICATION

Domains	Number of Items	Items which were significantly correlated with sex					
		Age Group and Classification					
		8		10		12	
		Reg.	Spec.	Reg.	Spec.	Reg.	Spec.
I. Independent Functioning	17	NS*	NS	NS	NS	NS	NS
II. Physical Development	6	NS	NS	NS	NS	NS	NS
III. Economic Activity	4	NS	NS	NS	NS	NS	NS
IV. Language Development	9	NS	NS	NS	NS	32	NS
V. Number and Time Concepts	3	NS	NS	NS	NS	NS	NS
VI. Vocational Activ.	3	NS	NS	NS	NS	NS	NS
VII. Self Direction	5	NS	NS	NS	NS	NS	NS
VIII. Responsibility	2	NS	NS	NS	NS	NS	NS
IX. Socialization	7	NS	59**	NS	NS	NS	NS
Total Number of Significant Items	56	0	1	0	0	1	0

*NS = None Significant

**Actual Item from Scale

TABLE 5
SUMMARY OF CORRELATIONS OF ITEMS WITH
SOCIO-ECONOMIC STATUS BY AGE AND CLASSIFICATION

Domains	Number of Items	Items which were significantly correlated with Socio-economic status					
		Age Group and Classification					
		8		10		12	
		Reg.	Spec.	Reg.	Spec.	Reg.	Spec.
I. Independent Functioning	17	NS	17	NS	3, 15	NS	NS
II. Physical Development	6	NS	26	NS	24	NS	NS
III. Economic Activity	4	NS	NS	NS	NS	NS	NS
IV. Language Development	9	NS	NS	32, 40	NS	NS	NS
V. Number and Time Concepts	3	NS	NS	NS	NS	NS	NS
VI. Vocational Activ.	3	NS	NS	NS	NS	NS	NS
VII. Self Direction	5	NS	NS	NS	NS	NS	NS
VIII. Responsibility	2	NS	NS	NS	NS	NS	NS
IX. Socialization	7	62**	NS	NS	65	NS	NS
Total Number of Significant Items	56	1	2	2	4	0	0

*NS = None Significant

**Actual Item Number from Scale

10

18

pages 12 - 14). It should be noted that a major portion of the 56 items within the nine domains discriminate satisfactorily between regular and special education groups at each of the three age levels 8, 10, and 12, and for the total population. There are a few items that do not appear to be functioning as intended, however, most of them at the upper age level. Their deletion from the scale might aid in the revision of the procedure.

Objective Three was to compare the normative data obtained from this study of Texas children with the norms provided by the AAMD. A visual inspection of the two sets of norms indicates a high degree of agreement between the norms obtained from the present study and the original California data. No further comparison was considered necessary once it was established that there were no major discrepancies between the two sets of norms. A total score was calculated for the instrument and norms provided for subjects in this study. The original normative data did not provide a measure like this, and further research seems warranted concerning its usefulness.

The final objective of this project was to examine the possibility of shortening the scale by discarding items that are not functioning well within the scale. One of the problems with the ABS-PSV has been the amount of time required to record the information. If the scale can be shortened by deleting items, it would be more practical for use by classroom teachers. The results of this project indicate that several items may be discarded from the scale without changing its overall effectiveness. A shortened version will need to be validated

TABLE 6

12

ITEM VALIDITY ANALYSIS
ITEM CORRELATION WITH GROUP CLASSIFICATION
(REGULAR VS. SPECIAL)

Domain I

Independent Functioning (17)

Item	Age Level			Total
	8	10	12	
1.	.32	.46	.41	.37
2.	.56	.50	.58	.49
3.	.16*	.18*	.15*	.15*
4.	.30	.27	.31*	.29
5.	.30	.27	.14*	.25
6.	.17*	.22*	.17*	.15*
7.	.34	.31	.25*	.28
8.	.28	.16*	.30*	.23
9.	.37	.33	.28*	.34
10.	.31	.32	.32*	.31
11.	.14*	.32	.60	.29
12.	.32	.33	.21*	.27
13.	.28	.27	.25*	.25
14.	.37	.36	.24*	.32
15.	.20	.61	.48	.38
16.	.52	.68	.71	.57
17.	.34	.66	.69	.47
Total	.50	.56	.57	.51

Domain II

Physical Development (6)

Item	Age Level			Total
	8	10	12	
1.	.28	.25	.08*	.23
2.	.23	.05*	.16*	.14*
3.	.28	.26	.26*	.25
4.	.27	.29	.19*	.25
5.	.00*	.13*	.17*	.07*
6.	.17*	.16*	.07*	.13*
Total	.30	.35	.22*	.30

*Not Significant; $p < .01$

Domain III

Economic Activity (4)

Item	Age Level			Total
	8	10	12	
1.	.43	.73	.70	.57
2.	.37	.55	.67	.46
3.	.34	.46	.33*	.32
4.	.57	.44	.46	.43
Total	.56	.65	.65	.55

Domain IV

Language Development (9)

Item	Age Level			Total
	8	10	12	
1.	.55	.53	.55	.51
2.	-.09*	-.11*	.06*	-.08*
3.	.28	.31	.35	.32
4.	.37	.35	.32*	.35
5.				.20
6.	.67	.60	.57	.60
7.	.35	.20*	.41	.29
8.	.44	.29	.25*	.32
9.	.48	.50	.65	.49
Total	.55	.49	.53	.49

Domain V

Numbers and Time (3)

Item	Age Level			Total
	8	10	12	
1.	.37	.27	.20*	.29
2.	.52	.40	.42	.45
3.	.57	.40	.42	.45
Total	.60	.56	.59	.53

* Not significant; $p < .01$

Domain VI Vocational Activity (3)

Item	Age Level			Total
	8	10	12	
1.	.11*	.29	.58	.23
2.	.35	.30	.44	.35
3.	.30	.33	.38	.32
Total	.33	.34	.46	.35

Domain VII Self Direction (5)

Item	Age Level			Total
	8	10	12	
1.	.31	.22*	.45	.30
2.	.37	.31	.45	.37
3.	.23	.39	.28*	.27
4.	.29	.38	.44	.35
5.	.35	.40	.41	.37
Total	.41	.47	.54	.45

Domain VIII Responsibility (2)

Item	Age Level			Total
	8	10	12	
1.	.22*	.18*	.47	.22
2.	.31	.30	.48	.33
Total	.29	.27	.52	.31

Domain IX Socialization (7)

Item	Age Level			Total
	8	10	12	
1.	.32	.29	.27*	.32
2.	.16*	.35	.33*	.24
3.	.10*	.39	.34	.20
4.	.32	.18*	.16*	.22
5.	.22*	.40	.50	.31
6.	.22*	.22*	.29*	.24
7.	.28	.24*	.25*	.27
Total	.34	.45	.44	.38

*Not Significant; $p < .01$

with other samples of subjects, but the results indicate that such an effort may be feasible.

SUMMARY AND IMPLICATIONS

A review of the findings of this investigation indicates that the ABS-PSV seems to be a suitable and effective instrument for measuring adaptive behavior within the limits of the AAMD definition. The majority of the items had adequate discriminatory power to differentiate between regular and special education groups. However, since a few specific items do not appear to be adequate discriminators, it is recommended that a shortened version of the instrument be devised and validated. Deletion of such items could save data collection time and effort, which are concerns often expressed by those using the Adaptive Behavior Scale in its present form.

Further attention should be devoted to the use of the derived total score since it seems to be a satisfactory discriminator between groups of regular and special education students. It appears to have potential use in screening children who are being considered for possible placement in special education classes.

Further replication of this study is recommended to add more information to the present bank of normative data. With additional information about the instrument available to educators faced with the problems of assessing adaptive behaviors, the AAMD Adaptive Behavior Scale-Public School Version may prove to be an effective procedure.

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APPENDIX

PART I

PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class All
 Ethnic All
 Sex Both
 Age 8

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	77	24	14	38	12	11	20	8	26	224
98	76		13					6		224
97										220
96									25	
95				37						
94			12			10				
93	75						19			219
92										
91										
90										
89										
88										
87										
86										
85	74		11						24	218
84										
83										217
82										
81									23	216
80										
79										
78					11					
77										
76							18			213
75	73		10							
74										
73				36						210
72								5		
71	72									
70										
69			9							
68										209
67										
66										207
65	71									
64										
63	70				10					
62										
61										206
60				35						204
59										
58										
57										
56				34					22	202
55										
54							17			199
53	69									
52			8							197
51			7							196
50										195
49										
48										
47										
46	68									190
45				33	9				21	
44										
43										
42						9	16			
41				32						
40										
39										
38	67									189
37	66	23								
36				31						187
35										
34										
33	65									
32	64						15			186
31							14			185
30										
29										
28										
27				30					20	184
26		22	6							183
25										
24	63			28	8		13		19	180
23										
22				27						174
21										
20						8				173
19										
18							12	3		172
17	62									
16										
15			5	26						166
14										
13	61	21		25		7			18	165
12	60									
11							11			
10	57		4		7	5			17	163
9										
8	56					4	10			
7						1		2		
6										
5		20		22			8		16	151
4	51			20		0			15	
3										
2	47	19		19	4		7			
1		17	1	17			6		14	145
0										
N =										
62										

PART I PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class SpEd
Ethnic All
Sex Both
Age 8

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	75	24	11	36	12	11	20	6	26	212
98			10		11		19			209
97							18		25	204
96			9		10					
95				34	9					
94										
93				33						200
92										
91			8							
90										
89	72			32				5		199
88			7			10			24	195
87	70						17			194
86										
85										
84	69			31					23	193
83										
82									22	191
81					8					190
80	68			30			16			
79										
78										
77										
76										
75										
74	67			29				4		189
73										
72										
71			6	28					21	184
70	66									
69										
68	65									181
67										
66	64			27						180
65										
64	62					9				172
63			5							
62	61			26		15				170
61										
60					7				20	168
59										
58		23								
57				25					19	167
56						8	14			162
55	56									
54										
53										
52							13			
51	55		4	24						158
50										
49										
48										153
47						7	12			146
46										
45	54								18	145
44										
43	52			23		6	11			143
42	51									
41										
40					5		10	3		139
39		22	3							
38	50	21							17	138
37				22						
36	47					5				
35										137
34	46						9			
33										129
32			2	21						
31										126
30	44			20		4	8		16	121
29										
28						3				114
27						2		2		
26	42	20		19						111
25				18		1				
24		19								108
23			1	17		0				
22	40									102
21	38			16					15	
20				15			7			
19		18			3					
18				14	2		6		14	98
17	36			13						
16		17	0							94
15	35									
14				12	1			1	13	90
13	28	16								
12				11					11	89
11	27				0		5			87
10										
9										
8	26			10						77
7		15		8					9	
6	25									43
5		14					4	0		
4	24	9		7					3	66
3										
2										
1										
0										
N =					27					
65										

PART I

PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class Reg
 Ethnic All
 Sex Both
 Age 10

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	82	24	17	40	13	11	20	10	26	236
98										
97			15	39	12			8		230
96										
95	81							6		226
94										
93										
92										
91	80									225
90			14							
89										
88										
87										
86										
85	79									
84							19			
83										
82										
81									25	224
80				38						
79							18	5		
78	78									
77										
76										
75			13							
74										
73										
72										
71										223
70	77					10				
69										
68										221
67										
66										
65										220
64										
63										
62										
61										
60			12							
59										
58										218
57				37						
56										
55	76									216
54				36						
53										
52										214
51										
50										
49			11							
48										
47										
46										
45	75									213
44										
43										
42					11		17			212
41									23	
40				35						211
39										
38										
37										
36	74									210
35										
34										
33										
32						9				208
31				34						
30	73			33					22	202
29										
28										
27	71									
26			10							
25				32	10					201
24										
23										200
22										
21	70					8			21	
20				31						
19							15			194
18	68									
17										
16										
15	67				9				20	
14				30		7	14			183
13										
12	65									
11			9		8			2		
10										
9	57	21	3	28			13		19	180
8										
7							12			170
6				23	7	6			17	
5										
4										
3	54		1	18	6	0	6	1	15	138
2										
1										
0										
28										
N = 37										

PART I

PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class SpEd
Ethnic All
Sex Both
Age 10

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	74	27	12	37	12	11	19	6	26	208
98		24		36	11					205
97	73					10				
96			10				18		25	200
95										
94										
93	72									199
92										
91	71			35	10		17		24	197
90			9							
89								5		195
88	70									
87									23	194
86										
85				34						
84										
83	69									
82										
81	68									193
80										
79			8				16			191
78									22	190
77										
76				33	9			4		
75				32						187
74										
73										186
72										
71	67					9				
70										
69			7							
68				31					21	183
67	66									
66										
65	65						15			
64										
63	64	23		30						178
62										
61										175
60	63									174
59										
58			6	29						172
57	61									
56				28						171
55						8				
54										167
53										164
52					8					
51							14			
50	59		5							
49										
48										
47							13			161
46				27						
45	58								19	160
44										
43	57	22								154
42										
41	56		4	26	7		12		18	153
40	54									
39								3		152
38	53									
37										
36	52									151
35		21		25		7	11		17	
34					6					
33	51									150
32										
31	50		3							
30				24			10			148
29										147
28		20								
27										139
26				23					16	
25					5	6	9			138
24	49			22		5				
23		19								
22	41		2				8			134
21	40									120
20				21	4	4			15	113
19	37	18								
18				18		2		2	14	112
17							7			109
16	36		1							
15						1				103
14	35			16			6			
13										
12	32					0				
11										
10	30	17		15	3				13	98
9	29		0							94
8							5		12	90
7	28	16		13			4		11	
6		14		12	2			1		89
5	24			9	0				8	74
4										
3	20	13								51
2	11							0	5	
1		10								
0										

N =
69

PART I PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class
Ethnic
Sex
Age

Reg.
All
Both
12

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	83	24	16	39	12	11	20	6	26	235
98										
97										
96										
95										
94										
93			15							
92										
91	81									231
90										
89										
88										
87										
86										
85										
84										
83							19			
82										
81										230
80										
79										
78										
77										
76			14							
75										
74										
73										
72										
71	79									229
70										
69										
68										
67										
66										
65										
64										
63									25	
62										
61										
60										
59										
58										
57										
56										
55										
54										
53										
52										
51										
50			13				18	5		228
49										
48										
47										
46										
45										
44										
43										
42				39						
41										
40										223
39										
38										
37										
36									24	
35										
34										
33										
32										
31	77									221
30										
29										
28										
27						10				
26				37						
25			12							
24										
23										
22										
21										
20										218
19										
18										
17		23	10					4		
16										
15										
14										
13										
12										
11										
10	72									210
9			5	33			17		23	
8										
7										
6										
5										
4										
3										
2										
1										
0										

N =
12

PART I PROFILE SUMMARY - ADAPTIVE BEHAVIOR SCALE

Class SpEd
Ethnic All
Sex Both
Age 12

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	78	25	12	37	12	10	19	6	26	215
98		24	11	36	11			5		202
97									25	200
96	73						18		24	195
95	72									
94				35						191
93			9							
92				34	10					189
91							17			188
90	70									
89							16	4		187
88			8			9			23	186
87				33						
86										185
85	69									183
84										
83	68									182
82							15		22	180
81										
80	67									
79				32			14			
78										177
77				31					21	175
76				29			13			173
75					8	8				
74										171
73			7	28						168
72										
71				27					20	167
70	64									166
69										
68	62									
67										
66										
65										
64	61									
63										
62										
61										
60										
59	60									
58			7							
57										
56										
55										
54	59									
53		23								
52										
51										
50										
49										
48										
47	58									
46										
45										
44										
43			6						19	162
42										
41				26		7				
40										
39					7					
38										
37				25					18	159
36				24				3		
35										
34										
33	57			23		6			17	158
32										
31										
30	55	22		22			10			154
29										
28					6					152
27			5			5				
26	53			21			9		16	151
25										
24		21								146
23			4							
22										
21	51									
20		20	3	20				2	15	141
19	49									
18										
17				19		2				133
16	48						7			129
15					5	1				
14		19							14	122
13	44		2	18		0				
12							5			119
11	42		1	13	4				13	112
10										
9	40		0	11						
8										
7	38			10	2				12	89
6		17						4		
5	35			3	0			1	1	62
4										
3										
2	6	5		0			0	0	0	14
1										
0										

N = 46

31

PART I PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class EMR
Ethnic All
Sex BOLE
Age 5

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	75	24	11	33	12	11	20	6	26	204
98										
97			10		11		19		25	
96						10				
95	74		9		9					200
94										
93			8	32			18			
92	72									
91										193
90								5	24	
89										
88										
87	68									191
86										
85			7							
84				30	8				23	
83										190
82										
81										
80										
79										
78	65						17		22	
77										189
76										
75										
74										
73	62			28						
72										
71										
70			6							180
69							16		21	
68	61									
67								4		
66				27						170
65										
64	58			26						
63										
62										
61			5		7					167
60	55									
59										
58		23		24						
57										158
56										
55										
54			4						20	
53										
52										
51	52					8	15			153
50										
49										
48										
47				23					19	
46										146
45	51						14			
44										
43						7				
42										
41	47			22			13			138
40					6					
39										
38						5				
37			3		5					
36	46									
35										
34									18	
33										
32							12			
31		21		21					17	137
30			2							
29						4				
28				20						
27	44				4					
26										
25						0	11			111
24										
23	42	20								
22										
21										
20			1	18						108
19		19					10	3		
18	38									
17									16	102
16										
15									15	
14		17		16	3		8			
13										
12										
11										
10										
9	28	16		14	2		7	2	14	98
8			0		1					
7		14		13			6	1	9	94
6										
5	25	9		12						
4										
3										
2										
1										
0										

PART I PROFILE SUMMARY - ADAPTIVE BEHAVIOR SCALE

Class TMR
Ethnic All
Sex Both
Age 5

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	70	24	5	36	9	10	16	4	22	195
98										
97										
96										
95										
94										
93		23	4	25	5	9	10		19	143
92	55									
91										
90										
89										
88										
87										
86										
85										
84										
83			3	23		8		3	16	129
82	44									
81										
80										
79										
78										
77										
76		21		17	4		9	2		121
75										
74										
73										
72										
71										
70										
69										
68			2	15		6	6			102
67										
66										
65										
64	42									
63										
62										
61										
60										
59		20	1	13	2	5			14	90
58										
57										
56	36									
55										
54										
53										
52										
51										
50		18	0	11		3			13	89
49										
48										
47										
46	35									
45										
44										
43					1	2		1		
42										
41										
40										
39										
38										
37										
36	27									87
35										
34		17		10	0	1	6		11	
33										
32										
31										
30										
29										
28										
27										77
26		16		8		0				
25										
24										
23										
22										
21										
20										
19	26						5			73
18										
17										
16										
15										
14										
13										
12										
11										
10	24	15		7			4	0	3	66
9										
8										
7										
6										
5										
4										
3										
2										
1										
0										
N =										
12										

PART I PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class LLD
Ethnic All
Sex Both
Age 8

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	75	24	10	36	11	11	18	6	26	212
98										
97										
96										
95			9		10				25	209
94										
93										
92										
91										
90					9					
89										
88										
87				34			17			
86										
85	74		7							
84										
83										200
82				32				5		
81										
80	70									
79										
78										199
77				31			16		24	
76										
75	69									
74										
73										
72										194
71					8			4	22	
70							15			
69										
68				29						190
67										
66										
65	68					10				
64										
63										
62									21	184
61										
60	67									
59										
58										
57				28						
56										181
55			6			9				
54										
53										
52				27			14		19	
51										
50	66									172
49										
48							13	3		
47										
46										
45	64		5			8				168
44										
43		23		26	7		9			
42										
41										
40	61					7				
39										
38				25					18	
37										
36										
35						6				
34										
33		22					8			162
32										
31										
30	56									
29		21								
28										
27										
26										
25			4							
24				24	6		7		17	
23										
22										145
21										
20	54					5				
19							6	2	16	
18										
17										139
16										
15	51		3			0				
14		19		23	5		5			
13										
12										
11										
10	50		2	22	4				15	125
9										
8										
7										
6										
5										
4	40	16		19			4	0	14	114
3										
2										
1										
0										

PART I - PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class EWR
Ethnic All
Sex Both
Age YU

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	74	27	12	37	12	10	19	6	26	208
98		24		36	11					205
97										
96										
95										
94	73									
93			10							
92										
91					10		18		25	197
89										
88	72								24	195
87										
86										
85										
84	70									
83				35					23	
82			9				17	5		
81				34						194
80										
79										
78										
77										
76										
75				33						
74										
73	68		8							191
72				32					22	
71					9					190
70										
69							16	4		
68										
67									21	
66										
65										
64	67			31						187
63										
62										
61										
60										186
59										
58	66					9				
57		23		30					20	
56										
55			7							175
54										
53										
52										
51										
50	65						15			174
49										
48										
47	61			29						172
46				28						
45			6							
44										
43										
42									19	171
41										
40	59									167
39					8				18	
38	58			27						164
37							13			
36			5			8				
35										
34	57									160
33							12		17	
32										
31	54									154
30				26				3		
29			4							
28	53				2		11			153
27										
26										
25										
24	51				6		10			152
23		22		25						
22	50		3							151
21										
20										
19										
18		21				7	9	2	16	150
17									15	
16							8			
15									14	148
14										
13		20		24	5		7			138
12			2			6				
11		18			4		4			134
10	40		1	23		1				
9		14								
8										
7	36			16	2	0		0	12	120
6										
5										
4										
3										
2										
1										
0										

N = 38

35

PART I

PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class TMR
 Ethnic All
 Sex Both
 Age 10

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	64	24	6	29	10	10	16	5	24	164
98										
97										
96										
95										
94		22	5	28	7	9	15		22	161
93	59									
92										
91										
90										
89										
88				27		8				153
87	56		4					4		
86										
85										
84										
83										
82		21		24			14		21	151
81	52									
80										
79										
78										
77										
76										
75		20		22	6	7	13		20	150
74										
73	51									
72										
71										
70							12		19	147
69										
68	49									
67										
66										
65										
64										
63		19	3	21	5	5		3		113
62										
61	41									
60										
59										
58							11		17	112
57										
56										
55										
54	37									
53										
52										
51			2	18	4	4				109
50										
49										
48										
47										
46										
45		18		16		2	10		16	103
44										
43										
42										
41										
40	35									
39										
38							9			
37										
36			1							
35										
34										
33	30									
32										
31		17	0	15		1	8			
30										
29										
28										
27	29									98
26				13	3	0		2	11	
25										
24										
23										
22										
21	24									89
20		16		12			6		8	
19										
18										
17										
16										
15										
14										
13	20	13		9	0			1		74
12										
11										
10										
9										
8	11									51
7										
6		10					4		5	
5										
4										
3										
2										
1										
0										

PART I

PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class LLD
 Ethnic All
 Sex Both
 Age 10

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VI Vocational Activity	VII Self- Direction	VIII Responsibility	IX Socialization	X Part I Total
99	71	24	10	35	12	11	17	6	25	200
98										
97										
96										
95										
94										
93			9		11			5		199
92										
91										
90										
89										
88										
87						10		4	23	
86										
85	69									197
84										
83										
82										
81				34	10		16			
80										
79										
78										
77	68									193
76										
75										
74										
73						9			22	
72										
71										
70										
69										186
68										
67		7	7		9		15			
66										
65										
64										
63										
62										
61										
60						8				
59										
58										
57										
56										
55										
54	64						14			
53				32					21	183
52										
51										
50										
49										
48										
47		22								
46	63						13		20	
45										
44										
43										
42					8					
41										
40			6	31						
39										
38	61									178
37										
36										
35										
34										
33		21	5	28		7	10	3		
32										
31										164
30										
29										
28				26			7		18	
27										
26										
25										
24										
23	59									139
22										
21										
20		18	3	18	6	4	6		14	
19										
18										
17										
16	32									94
15										
14			1		4	0		2	13	
13										
12										
11										
10										
9	28			9	0		5	1		90
8										
7										
6										
5										
4										
3										
2										
1										
0										

N = 15

PART I

PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class EMR
 Ethnic All
 Sex Both
 Age 12

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	78	25	12	37	12	10	19	6	26	215
98		24		36	11			5		
97			11							202
96										
95										
94	73								24	200
93										
92							18			
91										
90	72									191
89					10					
88										
87										189
86										
85				35						
84			9							
83				34			17	4	23	188
82	70									
81										
80							16			187
79										
78										
77										
76										
75	69									186
74										
73										
72										
71			8							
70	68			33						185
69										
68							15			
67	67								22	183
66										
65										
64										
63	64									182
62							14			
61										
60	62									180
59				32						
58										
57										
56										
55										
54									21	
53	61									
52										
51				31			13			177
50										
49										
48				29	8	8				175
47										
46										
45										
44	60			27						173
43		23								
42										
41			7				12		20	171
40										
39										
38	59									166
37										
36										
35										
34										
33										
32						7				
31										
30	58			26			11			
29										
28										
27		22						3	18	162
26										
25			6			6				161
24				25					17	
23										
22										
21		21		24	7	5	10		16	159
20	55					4				
19				22						
18										
17										
16	53									154
15										
14						3			15	
13		20		21			9	2		151
12			5		6	2				
11		19		20						133
10										
9	48		3	19		0	7		13	
8										
7										
6										
5										
4	44			18			4			122
3		17								
2										
1										
0										

38

PART I

PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class TMR
 Ethnic All
 Sex Both
 Age 12

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	67	24	8	33	11	10	18	6	25	186
98										
97										
96										
95										
94										
93	62		7	29	10		17	5	24	168
92										
91										
90										
89										
88										
87										
86	58			28	8	8	13		23	167
85										
84										
83										
82										
81										
80										
79										
78			6	27	7		11	4	19	164
77										
76										
75										
74										
73										
72										
71										
70										162
69	57	23	5		6	7				
68										
67										
66										
65										
64										
63	55		4	21		6			18	152
62										
61										
60										
59										
58										
57										
56										
55	51		3		5					141
54									17	
53										
52										
51										
50										
49										
48										
47	49		2	19		3		3		129
46										
45										
44										
43										
42										
41										
40										
39	42	22	1	13	4	1	7	2	14	119
38										
37										
36										
35										
34										
33										
32	40	19	0	11		0	5			112
31										
30										
29										
28										
27										
26										
25										
24										
23	38			10	2				12	89
22										
21										
20										
19										
18										
17										
16	35	17		3	0		4	1	1	62
15										
14										
13										
12										
11										
10										
9	6	5		8						
8										
7										
6							0	0	0	14
5										
4										
3										
2										
1										
0										
N =										
13										

PART I

PROFILE SUMMARY -- ADAPTIVE BEHAVIOR SCALE

Class 110
 Ethnic All
 Sex Both
 Age 12

Percentile Score	I Independent Functioning	II Physical Development	III Economic Activity	IV Language Development	V Number and Time Concepts	VII Vocational Activity	VIII Self- Direction	IX Responsibility	X Socialization	Part I Total
99	68	24	9	34	11	9	16	4	20	195
98										
97										
96										
95										
94										
93										
92										
91										
90										
89										
88										
87										
86										
85										
84										
83										
82										
81										
80										
79										
78										
77										
76										
75										
74										
73										
72										
71										
70										
69										
68										
67	59	23	6	23	7	8	11	3	19	158
66										
65										
64										
63										
62										
61										
60										
59										
58										
57										
56										
55										
54										
53										
52										
51										
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49										
48										
47										
46										
45										
44										
43										
42										
41										
40										
39										
38										
37										
36										
35										
34	58	20		22	6		5		16	145
33										
32										
31										
30										
29										
28										
27										
26										
25										
24										
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10										
9										
8										
7										
6										
5										
4										
3										
2										
1										
0										